

ZYME

1. Product and Company Identification

Product Code: 4697
Product Name: ZYME (LOW FOAM ENZYMATIC DETERGENT) **Revision:** 01/16/2018
Supersedes Revision: 03/16/2015

Manufacturer Information:

Company Name: PDQ Manufacturing, Inc. **Phone Number:**
(706)636-1848
201 Victory Circle

Ellijay, GA 30540

Web site address: www.pdqonline.com**Emergency Contact:** Chemtrec, Reference: CCN203605 (800)424-9300**Supplier Name and Address:**

Company Name: SPIRE INTEGRATED SOLUTION **Phone Number:**
402/344-4200
SCIENTEK TECHNOLOGY, INC.
8719 S. 135TH ST., STE #300
OMAHA, NE 68138

2. Hazards Identification**GHS Signal Word:** None**GHS Hazard Phrases:** No phrases apply.**GHS Precaution Phrases:** No phrases apply.**GHS Response Phrases:** No phrases apply.**GHS Storage and Disposal Phrases:** No phrases apply.**Potential Health Effects (Acute and Chronic):****Inhalation:** Low hazard for normal industrial handling.**Skin Contact:** A single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts. Repeated exposures may cause problems.**Eye Contact:** May cause slight transient injury. Causes eye irritation.**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
57-55-6	Propylene glycol {1,2-Propanediol }	3.0 -10.0 %
68130-12-1	Boric acid, 2-aminoethyl ester	1.0 -5.0 %

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4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation:	If breathed in, move person into fresh air. Consult a physician. No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
In Case of Skin Contact:	In case of contact, flush skin with plenty of water. Wash clothing before reuse. No specific treatment is necessary, since this material is not likely to be hazardous.
In Case of Eye Contact:	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Consult a physician.
In Case of Ingestion:	Never give anything by mouth to an unconscious person. Get medical aid. Rinse mouth with water.

5. Fire Fighting Measures

Flash Pt:	No data.	
Explosive Limits:	LEL: No data.	UEL: No data.
Autoignition Pt:	No data.	
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Material will not burn.	
Flammable Properties and Hazards:	No data available.	

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment.
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7. Handling and Storage

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. No special handling procedures are required.
Precautions To Be Taken in Storing:	No special storage requirements.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
57-55-6	Propylene glycol {1,2-Propanediol }	No data.	No data.	No data.
68130-12-1	Boric acid, 2-aminoethyl ester	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Respirator protection is not normally required.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves: Protective garments not normally required.

Other Protective Clothing: Protective garments not normally required.

Engineering Controls (Ventilation etc.): There are no special ventilation requirements.

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Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: Gas Liquid Solid

Appearance and Odor: Clear yellow liquid
Surfactant odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): ~ 1.03

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: Complete

Viscosity: Thin

pH: 8-9

Percent Volatile: No data.

10. Stability and Reactivity

Stability: Unstable Stable

Conditions To Avoid - Instability: No data available.

Incompatibility - Materials To Avoid: None.

Hazardous Decomposition or Byproducts: Carbon monoxide, Carbon dioxide, Hazardous decomposition products formed under fire conditions.

Possibility of Hazardous Reactions: Will occur Will not occur

Conditions To Avoid - Hazardous Reactions: No data available.

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11. Toxicological Information**Toxicological Information:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
57-55-6	Propylene glycol {1,2-Propanediol }	n.a.	n.a.	n.a.	n.a.
68130-12-1	Boric acid, 2-aminoethyl ester	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information**LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name: Not regulated.
DOT Hazard Class: NA None
UN/NA Number: None

15. Regulatory Information**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
57-55-6	Propylene glycol {1,2-Propanediol }	No	No	No
68130-12-1	Boric acid, 2-aminoethyl ester	No	No	No

CAS # Hazardous Components (Chemical Name)**Other US EPA or State Lists**

57-55-6	Propylene glycol {1,2-Propanediol }	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
68130-12-1	Boric acid, 2-aminoethyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

16. Other Information

Revision Date: 01/16/2018
Preparer Name: Regulatory Affairs

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PPE	A

HMIS:**Additional Information About** No data available.**This Product:****Company Policy or****Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control

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of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.